

## INTERNATIONAL SEARCH REPORT

 International Application No.  
 PCT/IB 03/00139

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07C45/30 C07C47/232 C07C47/21 C07C47/225 C07C49/603

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

BEILSTEIN Data, CHEM ABS Data, WPI Data, EPO-Internal, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>P. L. ANELLI ET AL.: "Fast and Selective Oxidation of Primary Alcohols to Aldehydes or to Carboxylic Acids and of Secondary Alcohols to Ketones Mediated by Oxoammonium Salts under Two-Phase Conditions"</p> <p>J. ORG. CHEM., vol. 52, no. 12, 1987, pages 2559-62, XP002238208 cited in the application page 2560, table I, example 12</p> <p style="text-align: center;">---</p> <p style="text-align: center;">-/--</p>	1-8

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

- 'A' document defining the general state of the art which is not considered to be of particular relevance
- 'E' earlier document but published on or after the international filing date
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- 'O' document referring to an oral disclosure, use, exhibition or other means
- 'P' document published prior to the international filing date but later than the priority date claimed

- 'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- 'Z' document member of the same patent family

Date of the actual completion of the international search

14 April 2003

Date of mailing of the international search report

06/05/2003

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	A. DIJKSMAN ET AL.: "Polymer immobilised TEMPO (PIPO): an efficient catalyst for the chlorinated hydrocarbon solvent-free and bromide-free oxidation of alcohols with hypochlorite" CHEM. COMMUN., 2000, pages 271-2, XP002238182 the whole document	1-8
A	NOOY DE A E J ET AL: "ON THE USE OF STABLE ORGANIC NITROXYL RADICALS FOR THE OXIDATION OF PRIMARY AND SECONDARY ALCOHOLS" SYNTHESIS, GEORG THIEME VERLAG. STUTTGART, DE, 1 October 1996 (1996-10-01), pages 1153-1174, XP002072173 ISSN: 0039-7881 the whole document	1-8
A	EP 1 103 537 A (CIBA SC HOLDING AG) 30 May 2001 (2001-05-30) claims; examples	1-8

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 1103537	A	30-05-2001	CA 2326304 A1 19-05-2001
			CN 1304921 A 25-07-2001
			CZ 20004299 A3 15-05-2002
			EP 1103537 A1 30-05-2001
			JP 2001199923 A 24-07-2001
			SK 17582000 A3 11-06-2001
			US 2002161265 A1 31-10-2002
			US 6441243 B1 27-08-2002